

GenCore version 5.1.6
 Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 13, 2004, 02:18:46 ; Search time 375 Seconds
 (without alignments)
 6567.600 Million cell updates/sec

Title: US-09-941-042C-1
 Perfect score: 456
 Sequence: 1 ggaacacattcaatacatt.....ggtaaaagcagttcacagag 456

Scoring table: IDENTITY NUC
 Gapop 10.0 , Gapext 1.0

Searched: 3625171 seqs, 2700493622 residues

Total number of hits satisfying chosen parameters: 7250342

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000
 Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

- Database :
- 1: /cgm2_6/ptodata/2/pubpna/US07_PUBCOMB.seq*
 - 2: /cgm2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq*
 - 3: /cgm2_6/ptodata/2/pubpna/US06_NEW_PUB.seq*
 - 4: /cgm2_6/ptodata/2/pubpna/US06_PUBCOMB.seq*
 - 5: /cgm2_6/ptodata/2/pubpna/US07_NEW_PUB.seq*
 - 6: /cgm2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq*
 - 7: /cgm2_6/ptodata/2/pubpna/US08_NEW_PUB.seq*
 - 8: /cgm2_6/ptodata/2/pubpna/US08_PUBCOMB.seq*
 - 9: /cgm2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq*
 - 10: /cgm2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq*
 - 11: /cgm2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq*
 - 12: /cgm2_6/ptodata/2/pubpna/US09_NEW_PUB.seq*
 - 13: /cgm2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq*
 - 14: /cgm2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq*
 - 15: /cgm2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq*
 - 16: /cgm2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq*
 - 17: /cgm2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq*
 - 18: /cgm2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq*
 - 19: /cgm2_6/ptodata/2/pubpna/US11_NEW_PUB.seq*
 - 20: /cgm2_6/ptodata/2/pubpna/US60_NEW_PUB.seq*
 - 21: /cgm2_6/ptodata/2/pubpna/US60_PUBCOMB.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	456	100.0	456	US-09-941-042C-1	Sequence 1, Appli
2	456	100.0	456	US-10-363-069-1	Sequence 1, Appli
3	66.6	14.6	5145	US-10-311-455-321	Sequence 321, App
4	66.6	14.6	5145	US-10-240-485-17	Sequence 17, Appl
5	66.4	14.6	8305	US-10-311-455-1541	Sequence 1541, Ap
6	61	13.4	6175	US-10-311-455-1280	Sequence 1280, Ap
7	61	13.4	158001	US-10-211-179-11	GENERAL INFORMATI
8	60.4	13.2	18997	US-10-172-086-17	Sequence 17, Appl
9	60.4	13.2	18997	US-10-311-455-543	Sequence 543, App
10	60.4	13.2	18997	US-10-311-507-31	Sequence 31, Appl
11	60.4	13.2	18997	US-10-480-846-17	Sequence 17, Appl
12	60.2	13.2	5925	US-10-311-455-1549	Sequence 1549, Ap

13	60	13.2	8305	15	US-10-311-455-1542	Sequence 1542, Ap
14	59.6	13.0	5407	15	US-10-311-455-2064	Sequence 2064, Ap
15	59.4	13.0	20674	15	US-10-170-097-651	Sequence 651, App
16	59	12.9	158001	16	US-10-211-179-11	GENERAL INFORMATI
17	58.2	12.8	858	14	US-10-198-846-7035	Sequence 7035, Ap
18	58.2	12.8	8842	14	US-10-311-455-1422	Sequence 1422, Ap
19	58.2	12.8	8842	16	US-10-240-454-30	Sequence 30, Appl
20	58	12.7	6062	16	US-10-221-613-50	Sequence 50, Appl
21	58	12.7	8197	15	US-10-240-485-68	Sequence 68, Appl
22	58	12.7	3673778	15	US-10-312-841-1	Sequence 1, Appli
23	57.6	12.6	6050	15	US-10-172-086-50	Sequence 50, Appl
24	57.6	12.6	6050	15	US-10-311-455-2102	Sequence 2102, Ap
25	57.6	12.6	6050	16	US-10-221-714A-518	Sequence 518, App
26	57.6	12.6	6050	17	US-10-311-507-20	Sequence 20, Appl
27	57.6	12.6	6050	18	US-10-480-846-50	Sequence 50, Appl
28	57.6	12.6	10279	15	US-10-311-455-1564	Sequence 1564, Ap
29	57.6	12.6	10279	16	US-10-240-589C-86	Sequence 86, Appl
30	57.2	12.5	8085	15	US-10-172-086-39	Sequence 39, Appl
31	57.2	12.5	8085	16	US-10-221-714A-201	Sequence 201, App
32	57.2	12.5	8085	17	US-10-311-507-71	Sequence 71, Appl
33	57.2	12.5	8085	18	US-10-480-846-39	Sequence 39, Appl
34	57	12.5	10886	15	US-10-311-455-2108	Sequence 2108, Ap
35	57	12.5	16258	16	US-10-257-166-120	Sequence 120, App
36	57	12.5	53332	9	US-09-801-861-3	Sequence 3, Appli
37	57	12.5	53332	14	US-10-224-562-3	Sequence 3, Appli
38	56.8	12.5	91352	16	US-10-300-611-4	Sequence 4, Appli
39	56.6	12.4	6013	16	US-10-221-613-226	Sequence 226, App
40	56.6	12.4	6095	15	US-10-311-455-334	Sequence 334, App
41	56.6	12.4	6095	15	US-10-240-485-28	Sequence 28, Appl
42	56.6	12.4	6095	16	US-10-221-714A-32	Sequence 32, Appl
43	56.6	12.4	16217	5	US-10-311-455-598	Sequence 598, App
44	56.4	12.4	6131	15	US-10-311-455-863	Sequence 863, App
45	56.4	12.4	6631	15	US-10-240-453-214	Sequence 214, App

ALIGNMENTS

RESULT 1
 US-09-941-042C-1
 ; Sequence 1, Application US/09941042C
 ; Publication No. US20030018997A1
 ; GENERAL INFORMATION:
 ; APPLICANT: ConKling, Mark A.
 ; APPLICANT: Li, Yan
 ; TITLE OF INVENTION: TRANSGENIC PLANTS CONTAINING MOLECULAR DECOYS THAT ALTER PROTEIN
 ; TITLE OF INVENTION: THEREIN
 ; FILE REFERENCE: 5051-471WO
 ; CURRENT APPLICATION NUMBER: US/09/941,042C
 ; CURRENT FILING DATE: 2002-08-20
 ; PRIOR APPLICATION NUMBER: US 60/229,198
 ; PRIOR FILING DATE: 2000-08-30
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 1
 ; TYPE: DNA
 ; LENGTH: 456
 ; ORGANISM: Nicotiana tabacum
 US-09-941-042C-1

Query Match: 100.0%; Score 456; DB 10; Length 456;
 Best Local Similarity 100.0%; Pred. No. 35-68;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGAAACATATTCATATTCATTTGCTACATATAATCGGTAGATACTTTGTGCTTT	60
Db	1	GGAAACATATTCATATTCATTTGCTACATATAATCGGTAGATACTTTGTGCTTT	60
Qy	61	GCTAAATAAGATACCTTGAAATAGCTTAGTTTAAATAAATAAGATAAGATTTAGGA	120
Db	61	GCTAAATAAGATACCTTGAAATAGCTTAGTTTAAATAAATAAGATAAGATTTAGGA	120
Qy	121	ATTAGTATTGAGTTTAAATTAATCTTATGACTTTGTAACAGTTTTTATATCCAGGCC	180

Db 121 ATTAGPATTTCGAGTTTAAATTAATTAATGACTTGTAAACAGTTTTTATATAATTCRAAGGCC 180
 QY 181 ATGAAAAATTTAATGCTTTTAACTTAACTTACTATATAAAATTTTTCATATGTAATAA 240
 Db 181 ATGAAAAATTTAATGCTTTTAACTTAACTTACTATATAAAATTTTTCATATGTAATAA 240
 QY 241 TTTAATCGGTAGTTCGATTTTTTTCATTTTTTATAAATAAATAAATAAATAAATAAATAA 300
 Db 241 TTTAATCGGTAGTTCGATTTTTTTCATTTTTTATAAATAAATAAATAAATAAATAAATAA 300
 QY 301 AATTATCGGTACAGTTATAGATTTATATAAATAAATAAATAAATAAATAAATAAATAAATAA 360
 Db 301 AATTATCGGTACAGTTATAGATTTATATAAATAAATAAATAAATAAATAAATAAATAAATAA 360
 QY 361 AATCGGTTCCGTCGGACCGGTTCCGATTCGATTTAGTTCGATTTTCAAAATTTTCAATGACACT 420
 Db 361 AATCGGTTCCGTCGGACCGGTTCCGATTCGATTTAGTTCGATTTTCAAAATTTTCAATGACACT 420
 QY 421 CCTAGTTGTTGTTATAGTAAAAGCAGTTACAGAG 456
 Db 421 CCTAGTTGTTGTTATAGTAAAAGCAGTTACAGAG 456

RESULT 2
 US-10-363-069-1
 ; Sequence 1, Application US/10363069
 ; Publication No. US2004010345441
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Li, Yan
 ; TITLE OF INVENTION: TRANSGENIC PLANTS CONTAINING MOLECULAR DECOYS THAT ALTER PROTEIN
 ; FILE REFERENCE: 5051-471XX
 ; CURRENT APPLICATION NUMBER: US/10/363,069
 ; PRIOR FILING DATE: 2003-02-28
 ; PRIOR APPLICATION NUMBER: PCT/US01/26789
 ; PRIOR FILING DATE: 2001-08-28
 ; PRIOR APPLICATION NUMBER: US 60/229,198
 ; PRIOR FILING DATE: 2000-08-30
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 1
 ; LENGTH: 456
 ; TYPE: DNA
 ; ORGANISM: Nicotiana tabacum
 US-10-363-069-1

Query Match 100.0%; Score 456; DB 17; Length 456;
 Best Local Similarity 100.0%; Pred. No. 3e-66;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAACATATTCATACTGTTAGTTGCTACTCATATATCGGTAGAAATCTTTGTCCTT 60
 Db 1 GMAAACATATTCATACTGTTAGTTGCTACTCATATATCGGTAGAAATCTTTGTCCTT 60

QY 61 GCTAATAAAGACTTTGAAATAGCTAGTTTAAATAAATAAATAAATAAATAAATAAATAAATAA 120
 Db 61 GCTAATAAAGACTTTGAAATAGCTAGTTTAAATAAATAAATAAATAAATAAATAAATAAATAA 120

QY 121 ATTAGTATTTTCGATTTAATCTTATTCGATTTGAAACAGTTTTTATAAATAAATAAATAAATAA 180
 Db 121 ATTAGTATTTTCGATTTAATCTTATTCGATTTGAAACAGTTTTTATAAATAAATAAATAAATAA 180

QY 181 ATGAAAAATTTAATGCTTTTAACTTAACTTACTATATAAAATTTTTCATATGTAATAA 240
 Db 181 ATGAAAAATTTAATGCTTTTAACTTAACTTACTATATAAAATTTTTCATATGTAATAA 240

QY 241 TTTAATCGGTAGTTCGATTTTTTTCATTTTTTATAAATAAATAAATAAATAAATAAATAAATAA 300
 Db 241 TTTAATCGGTAGTTCGATTTTTTTCATTTTTTATAAATAAATAAATAAATAAATAAATAAATAA 300

QY 301 AATTATCGGTACAGTTATAGATTTTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 360

Db 301 AATTATCGGTACAGTTATAGATTTTATAAATAAATAAATAAATAAATAAATAAATAAATAA 360
 QY 361 AATCGGTTCCGTCGGACCGGTTCCGATTCGATTTAGTTCGATTTTCAAAATTTTCAATGACACT 420
 Db 361 AATCGGTTCCGTCGGACCGGTTCCGATTCGATTTAGTTCGATTTTCAAAATTTTCAATGACACT 420
 QY 421 CCTAGTTGTTGTTATAGTAAAAGCAGTTACAGAG 456
 Db 421 CCTAGTTGTTGTTATAGTAAAAGCAGTTACAGAG 456

RESULT 3
 US-10-311-455-321
 ; Sequence 321, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; APPLICANT: BERLIN, Kurt
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determ.
 ; FILE REFERENCE: 5013-1014
 ; CURRENT APPLICATION NUMBER: US/10/311,455
 ; CURRENT FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIOR FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10032529.7
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; PRIOR FILING DATE: 2000-09-01
 ; NUMBER OF SEQ ID NOS: 2424
 ; SEQ ID NO 321
 ; LENGTH: 5145
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-311-455-321

Query Match 14.6%; Score 66.6; DB 15; Length 5145;
 Best Local Similarity 51.9%; Pred. No. 0.058;
 Matches 176; Conservative 0; Mismatches 159; Indels 4; Gaps 1;

QY 4 AACATATTCATACTGTTAGTTGCTACTCATATATCGGTAGAAATCTTTGTCCTTGTCT 63
 Db 511 AATATATTTTATAAGTTTAAAGTTTAAATATTTTTTTGGGTTATTTTATATTTGGGTTT 570

QY 64 AATAAAGACTTTGAAATAGCTAGTTTAAATAAATAAATAAATAAATAAATAAATAAATAA 123
 Db 571 TATGTTTATGAGGATATATTTTAAATTAATTTTAAATTTTAAATTTTAAATTTTAAATTT 630

QY 124 AGTATTTGAGTTTAAATAGCTTGTAAACAGTTTTTATAAATAAATAAATAAATAAATAAATAA 183
 Db 631 TTTTTTTTAAAGTTTAAAGTTTAAAGTTTAAAGTTTAAAGTTTAAAGTTTAAAGTTTAAAG 686

QY 184 AAAAAATTTAATGCTTTTAACTTAACTTACTATATAAAATTTTTCATATGTAATAA 243
 Db 687 AAAAAATTTAATGCTTTTAACTTAACTTACTATATAAAATTTTTCATATGTAATAA 746

QY 244 AATCGGTTCCGATTTAATCTTATTCGATTTGAAACAGTTTTTATAAATAAATAAATAAATAA 303
 Db 747 TGTATATTTATGATTTTAAATTAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAAT 806

QY 304 TATCGGTACAGTTATAGATTTTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 342
 Db 807 TTTTGTTTTTTAAATTAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAAT 845

RESULT 4
 US-10-240-485-17
 ; Sequence 17, Application US/10240485
 ; Publication No. US20030148327A1

GENERAL INFORMATION:
 APPLICANT: OLEK, Alexander
 APPLICANT: PIEPENBROCK, Christian
 APPLICANT: BERLIN, Kurt
 TITLE OF INVENTION: Diagnosis of Diseases Associated with
 Metastasis
 FILE REFERENCE: 5013.1007
 CURRENT APPLICATION NUMBER: US/10/240,485
 PRIOR FILING DATE: 2002-10-02
 PRIOR APPLICATION NUMBER: PCT/EP01/03970
 PRIOR FILING DATE: 2001-04-06
 PRIOR APPLICATION NUMBER: DE 10019058.8
 PRIOR FILING DATE: 2000-04-06
 PRIOR APPLICATION NUMBER: DE 10019173.8
 PRIOR FILING DATE: 2000-04-07
 PRIOR APPLICATION NUMBER: DE 10032529.7
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: DE 10043826.1
 PRIOR FILING DATE: 2000-09-01
 NUMBER OF SEQ ID NOS: 202
 SEQ ID NO 17
 LENGTH: 5145
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-240-485-17

Query Match 14.6%; Score 66.6; DB 15; Length 5145;
 Best Local Similarity 51.9%; Pred. No. 0.058;
 Matches 176; Conservative 0; Mismatches 159; Indels 4; Gaps 1;

QY 4 AACATATCAATACATAGTTGCTACTCATAAATCCCTGAGAACTTTGTCCTGCT 63
 DB 511 AATAATATTTAAGCTTAAAGTTTAAATATTTTGGGTTTATTTATTTGGGTTT 570
 QY 64 AATAAAGTACTTGAATAGCTTAAATATAAATAGGATAATAGATTTTAGGAAT 123
 DB 571 TAAGTTTATGAGGATATATTTTAAATTAATTTTAAATGCTTTTTTTTTTAAATTTG 630
 QY 124 AGTATTTTCACTTAACTTATTTGACTTTGACAGTTTATAAATCCAGGCCCATG 183
 DB 631 TTTTATTTTATAGTTTATAGGTTTATAGTAGAGAAATTAAGATAAAGAAAG--AGG 686
 QY 184 AAAAAATTAAGCTTATAGTTTAAACTACTATATAAATTTTCAATATGTAATAATTT 243
 DB 687 AAAAAATTAATTTTATTTTTTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 746
 QY 244 AATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAAATAAATAA 303
 DB 747 TGTATATATATGATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 806
 QY 304 TATCGGTACAGTTATAGATTTATATAAATAAATAAATAAATAAATAAATAAATAAATAA 342
 DB 807 TTTTCTTTTAAATAATGATGATATATAAATAAATAAATAAATAAATAAATAAATAAATA 845

RESULT 5
 US-10-311-455-1541/c
 Sequence 1541, Application US/10311455
 Publication No. US20030143606A1
 GENERAL INFORMATION:
 APPLICANT: OLEK, Alexander
 APPLICANT: PIEPENBROCK, Christian
 APPLICANT: BERLIN, Kurt
 TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determ
 FILE REFERENCE: 5013.1014
 CURRENT APPLICATION NUMBER: US/10/311,455
 PRIOR FILING DATE: 2002-12-16
 PRIOR APPLICATION NUMBER: PCT/EP01/07537
 PRIOR FILING DATE: 2001-07-02
 PRIOR APPLICATION NUMBER: DE 10032529.7
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: DE 10043826.1
 PRIOR FILING DATE: 2000-09-01
 NUMBER OF SEQ ID NOS: 2424
 SEQ ID NO 1280
 LENGTH: 6175
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-311-455-1280

PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: DE 10043826.1
 PRIOR FILING DATE: 2000-09-01
 NUMBER OF SEQ ID NOS: 2424
 SEQ ID NO 1541
 LENGTH: 8305
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-311-455-1541

Query Match 14.6%; Score 66.4; DB 15; Length 8305;
 Best Local Similarity 49.2%; Pred. No. 0.071;
 Matches 175; Conservative 0; Mismatches 181; Indels 0; Gaps 0;

QY 8 TATCAATACATTTGCTACTCATAAATCCCTGAGAACTTTGTCCTGCTAATA 67
 DB 6424 TATTTATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 6365
 QY 68 AAGATATCTGAAATAGCTTAAATATAAATAGCATAAATAGATTTTAGGAATAGTA 127
 DB 6364 AAAAAATATATTTATATATATATCAATTAATAAATACATAAATACATATATATATAA 6305
 QY 128 TTTTGAGTTTAAATACATTTGACTTGTAACTGTTTAACTTTTAAATTTTAAATTTTAAATTT 187
 DB 6304 TAAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 6245
 QY 188 ATTTAATGCTTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 247
 DB 6244 AATAATATATATTTACTATAAATATAAATATAAATATAAATATAAATATAAATATAA 6185
 QY 248 GGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAAATAAATAAATAAATAA 307
 DB 6184 TAAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 6125
 QY 308 GGTACAGTTATAGATTTATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 363
 DB 6124 TATATTTTATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 6069

RESULT 6
 US-10-311-455-1280
 Sequence 1280, Application US/10311455
 Publication No. US20030143606A1
 GENERAL INFORMATION:
 APPLICANT: OLEK, Alexander
 APPLICANT: PIEPENBROCK, Christian
 APPLICANT: BERLIN, Kurt
 TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determ
 FILE REFERENCE: 5013.1014
 CURRENT APPLICATION NUMBER: US/10/311,455
 PRIOR FILING DATE: 2002-12-16
 PRIOR APPLICATION NUMBER: PCT/EP01/07537
 PRIOR FILING DATE: 2001-07-02
 PRIOR APPLICATION NUMBER: DE 10032529.7
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: DE 10043826.1
 PRIOR FILING DATE: 2000-09-01
 NUMBER OF SEQ ID NOS: 2424
 SEQ ID NO 1280
 LENGTH: 6175
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-311-455-1280

Query Match 13.4%; Score 61; DB 15; Length 6175;
 Best Local Similarity 48.7%; Pred. No. 0.54;
 Matches 166; Conservative 0; Mismatches 175; Indels 0; Gaps 0;

QY 7 ATATTCAATACACTTGTAGTTTGGCTACTCATTAATCGCTAGAACTACTTGTGCTTGCCTAAT 66
 |||||
 Db 4615 ATATTTAATTTTGTATATTTATATATTTGTTTATATATATTTATATATTTTATAT 4674
 |||||
 QY 67 AAAGTACTTGAATAGCTTACTTTAAATATAAATAGCATAATAGATTTTGGAAATAGT 126
 |||||
 Db 4675 ATATTATATAATGATAGTTATATTTATATATATATATATATATATATATATAT 4734
 |||||
 QY 127 AATTTGAGTTTAAATACATTAATGACTTGTACAGTTTTTAAATCCCAAGCCCATGAA 186
 |||||
 Db 4735 TGTTTTATATATTTGGTATTTATACGATATATTTTATATATATATATATATATAT 4794
 |||||
 QY 187 AATTTAAAGCTTTATAGTTTAAACTTACTATATAAATTTTTCATATGTAATAATTTAA 246
 |||||
 Db 4795 GTTTAAATTTATATGTTTATATATATATATATATATATATATATATATATATAT 4854
 |||||
 QY 247 CGGTAFAGTTTCGATTTTTTTCAAATTTATTTTAAATAAATAAATAAATAAATAA 306
 |||||
 Db 4855 AATTTATATGTTTAT 4914
 |||||
 QY 307 CGGTACAGTTATAGATTTATATAAATAAATAAATAAATAAATAAATAAATAAATAA 347
 |||||
 Db 4915 GTATTTAT 4955
 |||||

RESULT 7
 US-10-211-179-11/c
 ; GENERAL INFORMATION:
 ; APPLICANT: Nicholas W. Dean
 ; APPLICANT: Kenneth W. Doble
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHOYRORYL PHOSPHATASE ACTIVATOR EXP
 ; FILE REFERENCE: PTS-0011
 ; CURRENT APPLICATION NUMBER: US/10/211,179
 ; CURRENT FILING DATE: 2002-08-01
 ; NUMBER OF SEQ ID NOS: 119
 ; OTHER INFORMATION: n = a, t, c, or g
 US-10-211-179-11

Query Match 13.4%; Score 61; DB 16; Length 159001;
 Best Local Similarity 51.1%; Pred. No. 1.2;
 Matches 170; Conservative 0; Mismatches 160; Indels 3; Gaps 1;

QY 3 AAACATATTCATACATGCTGCTACTCATTAATCGCTAGAACTACTTGTGCTTGC 62
 |||||
 Db 22622 AT 22563
 |||||
 QY 63 TAATAAGACTTCCAAATAGCTTA---GTTTTAAATATAAATAGCATAATAGATTTTAGG 119
 |||||
 Db 22562 TATAATAATA 22503
 |||||
 QY 120 AATAGTATTTTGTAGTTTAACTTATTTGACTTGTACAGTTTTTAAATCCCAAGCC 179
 |||||
 Db 22502 TATTTATATATAATA 22443
 |||||
 QY 180 CATGAAAAATTTAATGCTTTTATAGTTTAAACTTACTATATAAATTTTTCATATGTA 239
 |||||
 Db 22442 TTTA 22383
 |||||
 QY 240 ATTTAATCGGTATAGTTCGATATTTTTCAAATTTATTTTAAATAAATAAATAAATAA 299
 |||||
 Db 22382 ATATATTTTA 22323
 |||||
 QY 300 TAAATTCGGTACAGTTATAGATTTATATAA 332
 |||||
 Db 22322 TA 22290
 |||||

RESULT 8
 US-10-172-086-17
 ; Sequence 17, Application US/10172086
 ; Publication No. US20030113750A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Epigenomics AG

; TITLE OF INVENTION: Method and nucleic acids for the differentiation
 ; TITLE OF INVENTION: of prostate tumors
 ; FILE REFERENCE:
 ; CURRENT APPLICATION NUMBER: US/10/172,086
 ; CURRENT FILING DATE: 2002-06-13
 ; NUMBER OF SEQ ID NOS: 116
 ; SEQ ID NO 17
 ; LENGTH: 18997
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-172-086-17

Query Match 13.2%; Score 60.4; DB 15; Length 18997;
 Best Local Similarity 49.7%; Pred. No. 0.91;
 Matches 154; Conservative 0; Mismatches 156; Indels 0; Gaps 0;

QY 19 TTGTAGTTTCTACTCATTAATCGCTAGAACTACTTGTGCTTGCCTAATAAAGATACTTGA 78
 |||||
 Db 13515 TTGAGGTTTTTTTTTAAATTTTGTGGATTTTGAATATATATGTTTTATTGAAAATAATTGG 13574
 |||||
 QY 79 AATAGCTTATGTTTAAATATAAATAGCATAATAGATTTTAGGAATTAGTATTTTGAATTTA 138
 |||||
 Db 13575 TTATTAAGTATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 13634
 |||||
 QY 139 ATACTTATTTGACTTCTAAACAGTTTTTATAATCCCAAGCCCATGAAAATTTAATGCTT 198
 |||||
 Db 13635 TTTTTTTTTTTTTTTTATATTTTTTAAATTTTAAATATATATATATATATATATAT 13694
 |||||
 QY 199 TATAGCTTTTAACTTACTATATAAATTTTTCATATGTAATAAATTTAATCGGTATAGTTCG 258
 |||||
 Db 13695 TATTAATAAGTTTTTATTTTTTTTAGAATTTTTTTAGATTTTTTTTAAATGATAAG 13754
 |||||
 QY 259 ATATTTTTTCAATTTTATTTTTTAAATAAATAAATAAATAAATAAATAAATAAATAA 318
 |||||
 Db 13755 ATAATTAATGAT 13814
 |||||
 QY 319 AGATTTATAT 328
 |||||
 Db 13815 GATTTGTTTT 13824
 |||||

RESULT 9
 US-10-311-455-543
 ; Sequence 543, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; APPLICANT: BERLIN, Kurt
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determ
 ; TITLE OF INVENTION: cytosine methylation
 ; FILE REFERENCE: 5013.1014
 ; CURRENT APPLICATION NUMBER: US/10/311,455
 ; CURRENT FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIOR FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10032529.7
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; PRIOR FILING DATE: 2000-09-01
 ; NUMBER OF SEQ ID NOS: 2424
 ; SEQ ID NO 543
 ; LENGTH: 18997
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-311-455-543

Query Match 13.2%; Score 60.4; DB 15; Length 18997;
 Best Local Similarity 49.7%; Pred. No. 0.91;

Matches 154; Conservative 0; Mismatches 156; Indels 0; Gaps 0;
QY 19 TTGTAGTTTGCCTACTCATAAATCGCTAGCAATACACTTTGCCTGCTAATAAAGATACTTTGA 78
Db 13515 TTGAGGTTTTTAAATTTTTTGGGAAATTTTGALTTTATATAGTTTTTTATTGAAATAAATTTGG 13574
QY 79 AANTAGCTTAGTTTTAAATAATAAATAGCATAAATAGATTTTTAGGAATTAGTATTTCAGTTTTA 138
Db 13575 TTATTAUCATTAATAATAATAAATATAATAATATTAATTTATTTATTTTATGATPAAT 13634
QY 139 ATTACTTATGACTGTAACTGTTTATAAATCCAGGCCCAATGAAAAATTTAATGCTT 198
Db 13635 TTTTGTATTTTATTTATTTTAAATTTTTAAATATCGTGTTTTTATTATAATGAT 13694
QY 199 TATTAGTTTTAACTTACTATAAATTTTTTTCATATGTAAATAATTAATCGGTATAGTTTCG 258
Db 13695 TATTATTAAATAGTTTTTATTTTTTTAGATTTTTTGTAGTTTTTAAATGAAATGATAAG 13754
QY 259 ATATTTTTTCAATTTTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 318
Db 13755 ATAAATATGATATAATATAATATAATATAAATAAATAAATAAATAAATAAATAAATAAATA 13814
QY 319 AGATTTATAT 328
Db 13815 GATTTGTTTT 13824

RESULT 10
US-10-311-507-31
; Sequence 31, Application US/10311507
; Publication No. US200406115630A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Method and nucleic acids for the analysis of astrocytomas
; FILE REFERENCE: 5013.1013
; CURRENT APPLICATION NUMBER: US/10/311.507
; PRIOR FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: PCT/EP01/07538
; PRIOR FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 136
; SEQ ID NO 31
; LENGTH: 18997
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-311-507-31

Query Match 13.2%; Score 60.4; DB 17; Length 18997;
Best Local Similarity 49.7%; Pred. No. 0.91;
Matches 154; Conservative 0; Mismatches 156; Indels 0; Gaps 0;
QY 19 TTGTAGTTTGCCTACTCATAAATCGCTAGCAATACACTTTGCCTGCTAATAAAGATACTTTGA 78
Db 13515 TTGAGGTTTTTAAATTTTTTGGGAAATTTTGALTTTATATAGTTTTTTATTGAAATAAATTTGG 13574
QY 79 AANTAGCTTAGTTTTAAATAATAAATAGCATAAATAGATTTTTAGGAATTAGTATTTCAGTTTTA 138
Db 13575 TTATTAUCATTAATAATAATAAATATAATAATATTAATTTATTTTATGATPAAT 13634
QY 139 ATTACTTATGACTGTAACTGTTTATAAATCCAGGCCCAATGAAAAATTTAATGCTT 198
Db 13635 TTTTGTATTTTATTTTAAATTTTTAAATATCGTGTTTTTATTATAATGAT 13694
QY 199 TATTAGTTTTAACTTACTATAAATTTTTTTCATATGTAAATAATTAATCGGTATAGTTTCG 258
Db 13695 TATTATTAAATAGTTTTTATTTTTTTAGATTTTTTGTAGTTTTTAAATGAAATGATAAG 13754

QY 259 ATATTTTTTCAATTTTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 318
Db 13755 ATAAATATGATATAATATAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 13814
QY 319 AGATTTATAT 328
Db 13815 GATTTGTTTT 13824
RESULT 11
US-10-480-846-17
; Sequence 17, Application US/10480846
; Publication No. US20040219549A1
; GENERAL INFORMATION:
; APPLICANT: Distler, Jurgen
; APPLICANT: Model, Fabian
; APPLICANT: Agorjan, Peter
; TITLE OF INVENTION: Method and nucleic acids for the differentiation
; FILE REFERENCE: 47675-53
; CURRENT APPLICATION NUMBER: US/10/480,846
; CURRENT FILING DATE: 2003-12-12
; PRIOR APPLICATION NUMBER: PCT/EP02/06603
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: DE 10128509.4
; PRIOR FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 17
; LENGTH: 18997
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-480-846-17

Query Match 13.2%; Score 60.4; DB 18; Length 18997;
Best Local Similarity 49.7%; Pred. No. 0.91;
Matches 154; Conservative 0; Mismatches 156; Indels 0; Gaps 0;
QY 19 TTGTAGTTTGCCTACTCATAAATCGCTAGCAATACACTTTGCCTGCTAATAAAGATACTTTGA 78
Db 13515 TTGAGGTTTTTAAATTTTTTGGGAAATTTTGALTTTATATAGTTTTTTATTGAAATAAATTTGG 13574
QY 79 AANTAGCTTAGTTTTAAATAATAAATAGCATAAATAGATTTTTAGGAATTAGTATTTCAGTTTTA 138
Db 13575 TTATTAUCATTAATAATAATAAATATAATAATATTAATTTATTTTATGATPAAT 13634
QY 139 ATTACTTATGACTGTAACTGTTTATAAATCCAGGCCCAATGAAAAATTTAATGCTT 198
Db 13635 TTTTGTATTTTATTTTAAATTTTTAAATATCGTGTTTTTATTATAATGAT 13694
QY 199 TATTAGTTTTAACTTACTATAAATTTTTTTCATATGTAAATAATTAATCGGTATAGTTTCG 258
Db 13695 TATTATTAAATAGTTTTTATTTTTTTAGATTTTTTGTAGTTTTTAAATGAAATGATAAG 13754
QY 259 ATATTTTTTCAATTTTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 318
Db 13755 ATAAATATGATATAATATAATATAAATAAATAAATAAATAAATAAATAAATAAATA 13814
QY 319 AGATTTATAT 328
Db 13815 GATTTGTTTT 13824

RESULT 12
US-10-311-455-1549
; Sequence 1549, Application US/10311455
; Publication No. US20030143606A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt

Query Match 13.2%; Score 60.2; DB 15; Length 5925;
 Best Local Similarity 50.9%; Pred. No. 0.74;
 Matches 143; Conservative 0; Mismatches 138; Indels 0; Gaps 0;

QY 65 ATAAAGATACCTTTGAATAGCTTTAAATATAAATAGCATATAGCAATAGATTTAGGAATTA 124
 |||||
 Db 2199 ATAAAGGATTTTAGATAAATATTTTATATATTTTAAATGATGTTTTTAAAGAAATTA 2258
 |||||

QY 125 GATTTTTCAGTTTAAATTAATCTTATTGACTTGTAAACAGTTTTTATTAATTCCTAAAGCCCATGA 184
 |||||
 Db 2259 GAATTTTGAATTTGTTTTTTAGTTTGGTTTGTATATATATATAGATTTTGTGTTTTA 2318
 |||||

QY 185 AAAATTTAAGCTTTATAGTTTAAACTTACTATATAAATTTTTCATATGATGTAATAAATTTA 244
 |||||
 Db 2319 GCTTTTAAAGTATTTGTTTTTATTTAGATTTTATTTAAATTTTTTTTTTTTTTTAAATTT 2378
 |||||

QY 245 ATCGGTATAGTTCGATTTTTTTTCAATTTTTTTTATAAAATAAATAAAACTTACCCTAAT 304
 |||||
 Db 2379 ATAAAGATTTTTTTTTTTTTTTTTTTTTTTTGGATGATGTTATAAATTTTTTTTGTGATA 2438
 |||||

QY 305 ATCGGTACGTTTATAGATTTATATAAAATCTACCGGTTCTT 345
 |||||
 Db 2439 GATTTTTTGGTAGTAAATTAATAAATTAATGCGGTTTT 2479
 |||||

RESULT 13
 US-10-311-455-1542
 ; Sequence 1542, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determination of Cytosine Methylation
 ; FILE REFERENCE: 5013.1014
 ; CURRENT APPLICATION NUMBER: US/10/311.455
 ; PRIOR FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIOR FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; NUMBER OF SEQ ID NOS: 2424
 ; SEQ ID NO 1542
 ; LENGTH: 8305
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

Query Match 13.2%; Score 60; DB 15; Length 8305;
 Best Local Similarity 48.0%; Pred. No. 0.87;
 Matches 171; Conservative 0; Mismatches 185; Indels 0; Gaps 0;

QY 8 TATTCAATACATGTTAGTTGGCTACTCAATAACGGCTAGAACTACTTTGCGCTTGCTAATA 67
 |||||
 Db 1882 TATTTTATATAAATAAATAATATATGTTATAAATAATAAATAAATAAATAAATAAATAAATAA 1941
 |||||

QY 68 AAGATACCTTGAATAGCTTAGTTTAAATATAAATAGCATAAATAGATTTTGGAAATTACTA 127
 |||||
 Db 1942 AGAAATATATATATATATATATATATATAAATAAATAAATAAATAAATAAATAAATAAATAA 2001
 |||||

QY 128 TTTTGGAGTTTAAATCCTTATGACITGTTAACAGTTTTTATATAATCCAGGCCCCCGAATAA 187
 |||||
 Db 2002 TAAATATAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2061
 |||||

QY 188 ATTTAATGCTTTTATGTTTTTAAACCTTACTATATAAATTTTTCATATGTAATAAATTTAATC 247
 |||||
 Db 2062 AATATATATAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2121
 |||||

QY 248 GGTATAGTTCGATTTTTTCAATTTTTTATAAATAAATAAATAAATAAATAAATAAATAAATAA 307
 |||||
 Db 2122 TAAATATAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2181
 |||||

QY 308 GGTACAGTTATAGATTTATATAAATAAATCTACGGTTCTTCCAGAAAGAACCTTAAATAAT 363
 |||||
 Db 2182 TATATTTTTTATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2237
 |||||

RESULT 14
 US-10-311-455-2064
 ; Sequence 2064, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determination of Cytosine Methylation
 ; FILE REFERENCE: 5013.1014
 ; CURRENT APPLICATION NUMBER: US/10/311.455
 ; PRIOR FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIOR FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10032529.7
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; NUMBER OF SEQ ID NOS: 2424
 ; SEQ ID NO 2064
 ; LENGTH: 5407
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

Query Match 13.1%; Score 59.6; DB 15; Length 5407;
 Best Local Similarity 50.7%; Pred. No. 0.91;
 Matches 143; Conservative 0; Mismatches 139; Indels 0; Gaps 0;

QY 64 ATATAAGACTTCTTGAATAGCTTAGTTTAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 123
 |||||
 Db 4377 ATTTATTTTTTTGGAAATTTGTTTTTAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4436
 |||||

QY 124 AGTATTTTGGAGTTTAAATTAATTAATTTTACCTTGTAAACAGTTTTTATAATTCCTAAAGCCCATG 183
 |||||
 Db 4437 TAAAAATTTGGAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4496
 |||||

QY 184 AAAAATTTAATGCTTTTATAGTTTTTAAACTTACTATAAATAAATTTTCATATGTAATAAATTT 243
 |||||
 Db 4497 AAAAATTTTGTATTTTATAGTATTTTATGTTAAATAAATAAATAAATAAATAAATAAATAAATAA 4556
 |||||

RESULT 15
 US-10-311-455-1542
 ; Sequence 1542, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determination of Cytosine Methylation
 ; FILE REFERENCE: 5013.1014
 ; CURRENT APPLICATION NUMBER: US/10/311.455
 ; PRIOR FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIOR FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; NUMBER OF SEQ ID NOS: 2424
 ; SEQ ID NO 1542
 ; LENGTH: 8305
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

Query Match 13.1%; Score 59.6; DB 15; Length 5407;
 Best Local Similarity 50.7%; Pred. No. 0.91;
 Matches 143; Conservative 0; Mismatches 139; Indels 0; Gaps 0;

QY 64 ATATAAGACTTCTTGAATAGCTTAGTTTAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 123
 |||||
 Db 4377 ATTTATTTTTTTGGAAATTTGTTTTTAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4436
 |||||

QY 124 AGTATTTTGGAGTTTAAATTAATTAATTTTACCTTGTAAACAGTTTTTATAATTCCTAAAGCCCATG 183
 |||||
 Db 4437 TAAAAATTTGGAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4496
 |||||

QY 184 AAAAATTTAATGCTTTTATAGTTTTTAAACTTACTATAAATAAATTTTCATATGTAATAAATTT 243
 |||||
 Db 4497 AAAAATTTTGTATTTTATAGTATTTTATGTTAAATAAATAAATAAATAAATAAATAAATAAATAA 4556
 |||||

RESULT 15
 US-10-311-455-1542
 ; Sequence 1542, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determination of Cytosine Methylation
 ; FILE REFERENCE: 5013.1014
 ; CURRENT APPLICATION NUMBER: US/10/311.455
 ; PRIOR FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIOR FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; NUMBER OF SEQ ID NOS: 2424
 ; SEQ ID NO 1542
 ; LENGTH: 8305
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

Qy 244 AATCGGTATAGTTCGATATTTTCAATTTTATTTTAAATAAATAAATAAATACCCCTAAT 303
 Db 4557 TATTTATAGATTTTTTGGATTTTTTAAATGATTTTTTAAATGAAAGTTTTTATTAGAT 4616
 Qy 304 TATCGGTACAGTTATAGATTTATATAAATAAATCTACGGTCTT 345
 Db 4617 TTTTTTAAATGTTATATTTTTTTTATTATATTTTTTTGGTTATT 4658

RESULT 15
 US-10-170-097-651
 ; Sequence 651, Application US/10170097
 ; Publication No. US20030228582A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Bougueleret, Lydie
 ; APPLICANT: Chumakov, Ilya
 ; APPLICANT: Cohen, Amick
 ; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
 ; FILE REFERENCE: GEN-T114XC2D1
 ; CURRENT APPLICATION NUMBER: US/10/170,097
 ; CURRENT FILING DATE: 2002-06-10
 ; PRIOR APPLICATION NUMBER: US 09/641,638
 ; PRIOR FILING DATE: 2000-08-16
 ; PRIOR APPLICATION NUMBER: US 09/502,330
 ; PRIOR FILING DATE: 2000-02-11
 ; PRIOR APPLICATION NUMBER: US 60/133,200
 ; PRIOR FILING DATE: 1999-05-07
 ; PRIOR APPLICATION NUMBER: US 09/275,267
 ; PRIOR FILING DATE: 1999-03-23
 ; PRIOR APPLICATION NUMBER: US 60/119,917
 ; PRIOR FILING DATE: 1999-02-12
 ; NUMBER OF SEQ ID NOS: 1304
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 651
 ; LENGTH: 20674
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 1123..3123
 ; OTHER INFORMATION: 5 regulatory region
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 3124..3297
 ; OTHER INFORMATION: exon 1
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 3871..4072
 ; OTHER INFORMATION: exon 2
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 5552..5633
 ; OTHER INFORMATION: exon 3
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 5758..5880
 ; OTHER INFORMATION: exon 4
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 5996..6099
 ; OTHER INFORMATION: exon 5
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 6349..6509
 ; OTHER INFORMATION: exon 6
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 7379..7522
 ; OTHER INFORMATION: exon 7
 ; FEATURE:
 ; NAME/KEY: exon

; LOCATION: 8645..8854
 ; OTHER INFORMATION: exon 8
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 12254..12340
 ; OTHER INFORMATION: exon 9
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 12854..13023
 ; OTHER INFORMATION: exon 10
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 13308..13429
 ; OTHER INFORMATION: exon 11
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 16567..16667
 ; OTHER INFORMATION: exon 12
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 16775..16945
 ; OTHER INFORMATION: exon 13
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 17063..17554
 ; OTHER INFORMATION: exon 14
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 17555..20674
 ; OTHER INFORMATION: 3 regulatory region
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 1128
 ; OTHER INFORMATION: 10-508-191 : polymorphic base C or T
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 1182
 ; OTHER INFORMATION: 10-508-245 : polymorphic base C or T
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 1559
 ; OTHER INFORMATION: 10-509-284 : polymorphic base C or T
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 1570
 ; OTHER INFORMATION: 10-509-295 : deletion of C
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 1827
 ; OTHER INFORMATION: 10-510-173 : variable motif ATTGA or TTTTT
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 2048
 ; OTHER INFORMATION: 10-511-62 : polymorphic base C or T
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 2323
 ; OTHER INFORMATION: 10-511-337 : insertion of T
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 2341
 ; OTHER INFORMATION: 10-512-36 : polymorphic base G or C
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 2623
 ; OTHER INFORMATION: 10-512-318 : polymorphic base A or G
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 2832
 ; OTHER INFORMATION: 10-513-250 : polymorphic base A or G
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 2844

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 12, 2004, 20:59:30 ; Search time 78 Seconds
(without alignments)
4155.381 Million cell updates/sec

Title: US-09-941-042C-1
Perfect score: 456
Sequence: 1 ggaacatattcaatacatt.....ggtaaaagcagttacagag 456

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Table with columns: Result No., Score, Query Match, Length, DB ID, Description. Contains 27 rows of search results.

Table with columns: 28-45, 52.6-69.3, 11.5-11.7, 1241-6933, 1-4, US-07-593-657-6 to US-09-544-398B-11. Includes handwritten notes 'S91 D 513' and '1030mc'.

ALIGNMENTS

RESULT 1
US-08-508-786-5
: Sequence 5, Application US/08508786
: Patent No. 5837876
: GENERAL INFORMATION:
: APPLICANT: Conkling, Mark A.
: APPLICANT: Merdu, Nandini
: TITLE OF INVENTION: Root Cortex Specific Gene Promoter
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESS:
: -ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
: ADDRESS: Gibson
: STREET: Post Office Drawer 34009
: CITY: Charlotte
: STATE: No. 5837876th Carolina
: COUNTRY: USA
: ZIP: 28234
: COMPUTER READABLE FORM: disk
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/508,786
: FILING DATE:
: CLASSIFICATION: 800
: ATTORNEY/AGENT INFORMATION:
: NAME: Sibley, Kenneth D.
: REGISTRATION NUMBER: 31,665
: REFERENCE/DOCKET NUMBER: 5051-294
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 919-420-2200
: TELEFAX: 919-881-3175
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1030 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: US-08-508-786-5

Query Match 100.0%; Score 456; DB 2; Length 1030;
Best Local Similarity 100.0%; Pred. No. 1.4e-86;
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGAACATATTCAATTCAGTTGCTACTCAATAATCGCTAGAAATACCTTTGTCCTT 60
Db 1 GGAACATATTCAATTCAGTTGCTACTCAATAATCGCTAGAAATACCTTTGTCCTT 60

Best Local Similarity 100.0%; Pred. No. 1.4e-86;
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60
 Db 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60

Qy 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60
 Db 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60

Qy 61 GCTAATAAAGATACTTGAATAATAGCTTTAGTTTAAATAATAAATAAGCATAAATAGATTTTAGGA 120
 Db 61 GCTAATAAAGATACTTGAATAATAGCTTTAGTTTAAATAATAAATAAGCATAAATAGATTTTAGGA 120

Qy 121 ATTAGTATTTGAGTTTAACTTTACTTTGACTTTGACCTTTGAAACAGTTTATTAATTTCCAGGCC 180
 Db 121 ATTAGTATTTGAGTTTAACTTTACTTTGACTTTGACCTTTGAAACAGTTTATTAATTTCCAGGCC 180

Qy 181 ATCAAAAATTTAATGCTTTATTTAGTTTAAACTTACTATATAAAATTTTCAATATGTAATAA 240
 Db 181 ATCAAAAATTTAATGCTTTATTTAGTTTAAACTTACTATATAAAATTTTCAATATGTAATAA 240

Qy 241 TTTAATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAAATAA 300
 Db 241 TTTAATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAA 300

Qy 301 AATTATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAAATAA 360
 Db 301 AATTATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAA 360

Qy 361 AATCGGTTCGGTTCGAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAA 420
 Db 361 AATCGGTTCGGTTCGAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAA 420

Qy 421 CCTAGTGTGTATAGTTTAAAGTAAAGCAGTTACAGAG 456
 Db 421 CCTAGTGTGTATAGTTTAAAGTAAAGCAGTTACAGAG 456

RESULT 2
 PCT-US96-12158-5
 ; Sequence 5, Application PC/TUS9612158
 ; GENERAL INFORMATION:
 ; APPLICANT: Konkling, Mark A.
 ; APPLICANT: Mendu, Nandini
 ; APPLICANT: Song, Wen
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESS: Gibson
 ; STREET: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: North Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US96/12158
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 5051-294
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 919-420-2200
 ; TELEFAX: 919-881-3175
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1030 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; PCT-US96-12158-5
 ; Query Match 100.0%; Score 456; DB 5; Length 1030;

Best Local Similarity 100.0%; Pred. No. 1.4e-86;
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60
 Db 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60

Qy 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60
 Db 1 GGAACAATATTCACATTCATTTGAGTTTGTCTACTCATAAATCGCTAGAAATACTTTGGCCCT 60

Qy 61 GCTAATAAAGATACTTGAATAATAGCTTTAGTTTAAATAATAAATAAGCATAAATAGATTTTAGGA 120
 Db 61 GCTAATAAAGATACTTGAATAATAGCTTTAGTTTAAATAATAAATAAGCATAAATAGATTTTAGGA 120

Qy 121 ATTAGTATTTGAGTTTAACTTTACTTTGACTTTGACCTTTGAAACAGTTTATTAATTTCCAGGCC 180
 Db 121 ATTAGTATTTGAGTTTAACTTTACTTTGACTTTGACCTTTGAAACAGTTTATTAATTTCCAGGCC 180

Qy 181 ATCAAAAATTTAATGCTTTATTTAGTTTAAACTTACTATATAAAATTTTCAATATGTAATAA 240
 Db 181 ATCAAAAATTTAATGCTTTATTTAGTTTAAACTTACTATATAAAATTTTCAATATGTAATAA 240

Qy 241 TTTAATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAAATAA 300
 Db 241 TTTAATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAA 300

Qy 301 AATTATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAAATAA 360
 Db 301 AATTATCGGTACAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAA 360

Qy 361 AATCGGTTCGGTTCGAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAAATAA 420
 Db 361 AATCGGTTCGGTTCGAGTTTCAATATTTTCAATATTTTAAATAAATAAATAAATAAATAA 420

Qy 421 CCTAGTGTGTATAGTTTAAAGTAAAGCAGTTACAGAG 456
 Db 421 CCTAGTGTGTATAGTTTAAAGTAAAGCAGTTACAGAG 456

RESULT 3
 US-08-508-786-4
 ; Sequence 4, Application US/08508786
 ; Patent No. 5837876
 ; GENERAL INFORMATION:
 ; APPLICANT: Konkling, Mark A.
 ; APPLICANT: Mendu, Nandini
 ; APPLICANT: Song, Wen
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESS: Gibson
 ; STREET: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: No. 5837876th Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/508,786
 ; FILING DATE:
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 5051-294
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 919-420-2200
 ; TELEFAX: 919-881-3175
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1294 base pairs

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-420-2200
 TELEFAX: 919-881-3175
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1294 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 PCT-US96-12158-4

Query Match 100.0%; Score 456; DB 5; Length 1294;
 Best Local Similarity 100.0%; Pred. No. 1.4e-86;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACAATATCAATACATTTGCTACTCATATCGCTAGATACTTTGCGCTT 60
 Db 265 GGAACAATATCAATACATTTGCTACTCATATCGCTAGATACTTTGCGCTT 324
 Qy 61 GCTAATAAGACTCTGAAATAGCTTTAAATAATAAATAGCATAATAGATTTAGGA 120
 Db 325 GCTAATAAGACTCTGAAATAGCTTTAAATAATAAATAGCATAATAGATTTAGGA 384
 Qy 121 ATTAGTATTTGAGTTTAAATTTACTTATGACTTGTAACAGTTTTTATAATCCAAAGGCC 180
 Db 385 ATTAGTATTTGAGTTTAAATTTACTTATGACTTGTAACAGTTTTTATAATCCAAAGGCC 444
 Qy 181 ATGAAAAATTAAGCTTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 240
 Db 445 ATGAAAAATTAAGCTTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 504
 Qy 241 TTTAATCGGTATAGTTCGATATTTTCAATTTTAAATTTTAAATTTTAAATTTTAAATTT 300
 Db 505 TTTAATCGGTATAGTTCGATATTTTCAATTTTAAATTTTAAATTTTAAATTTTAAATTT 564
 Qy 301 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 360
 Db 565 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 624
 Qy 361 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 420
 Db 625 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 684

RESULT 5
 US-08-508-786-3
 ; Sequence 3, Application US/08508786
 ; Patent No. 5937876
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Mendu, Nandini
 ; APPLICANT: Song, Wen
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESS: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: No. 5837876th Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 5051-294

TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 PCT-US96-12158-4

Query Match 100.0%; Score 456; DB 2; Length 1294;
 Best Local Similarity 100.0%; Pred. No. 1.4e-86;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACAATATCAATACATTTGCTACTCATATCGCTAGATACTTTGCGCTT 60
 Db 265 GGAACAATATCAATACATTTGCTACTCATATCGCTAGATACTTTGCGCTT 324
 Qy 61 GCTAATAAGACTCTGAAATAGCTTTAAATAATAAATAGCATAATAGATTTAGGA 120
 Db 325 GCTAATAAGACTCTGAAATAGCTTTAAATAATAAATAGCATAATAGATTTAGGA 384
 Qy 121 ATTAGTATTTGAGTTTAAATTTACTTATGACTTGTAACAGTTTTTATAATCCAAAGGCC 180
 Db 385 ATTAGTATTTGAGTTTAAATTTACTTATGACTTGTAACAGTTTTTATAATCCAAAGGCC 444
 Qy 181 ATGAAAAATTAAGCTTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 240
 Db 445 ATGAAAAATTAAGCTTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 504
 Qy 241 TTTAATCGGTATAGTTCGATATTTTCAATTTTAAATTTTAAATTTTAAATTTTAAATTT 300
 Db 505 TTTAATCGGTATAGTTCGATATTTTCAATTTTAAATTTTAAATTTTAAATTTTAAATTT 564
 Qy 301 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 360
 Db 565 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 624
 Qy 361 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 420
 Db 625 AATTCGGTTCGGTTCGGATCGATCGGTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 684

RESULT 4
 PCT-US96-12158-4
 ; Sequence 4, Application PC/TUS9612158
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Mendu, Nandini
 ; APPLICANT: Song, Wen
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESS: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: North Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 5051-294

```

APPLICATION NUMBER: US/08/508,786
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 5051-294
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-420-2200
TELEFAX: 919-881-3175
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1372 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-508-786-3

```

```

Query Match 100.0%; Score 456; DB 2; Length 1372;
Best Local Similarity 100.0%; Pred. No. 1.4e-86;
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGRACACATATTCGAATACATTTGCTACTCATATAATCGTAGAATACCTTTGTGCCTT 60
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 343 GGAACACATATTCGAATACATTTGCTACTCATATAATCGTAGAATACCTTTGTGCCTT 402
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 61 GCTAATAAAGATACCTTGAATAGCTTGTAAATATAAATAGCATAATAGATATTTAGGA 120
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 403 GCTAATAAAGATACCTTGAATAGCTTGTAAATATAAATAGCATAATAGATATTTAGGA 462
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 121 ATTAGTATTTTGAGTTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 180
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 463 ATTAGTATTTTGAGTTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 522
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 181 ATGAAAATTTAAATGCTTTTATTAGTTTTAAATTAATTAATTAATTAATTAATTAATTA 240
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 523 ATGAAAATTTAAATGCTTTTATTAGTTTTAAATTAATTAATTAATTAATTAATTAATTA 582
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 241 TTTAATFCGGTATAGTTCGATATTTTTCAATTTATTTATAAATAAATAAATAAATAAATCC 300
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 583 TTTAATFCGGTATAGTTCGATATTTTTCAATTTATTTATAAATAAATAAATAAATAAATCC 642
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 301 AATTATCGGTACAGTTATAGATTATATAAATAAATCGGTTCTTCAGAGAAACCTTAAA 360
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 643 AATTATCGGTACAGTTATAGATTATATAAATAAATCGGTTCTTCAGAGAAACCTTAAA 702
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

```

```

RESULT 6
PCT-US96-12158-3
Sequence 3, Application PC/TUS9612158
GENERAL INFORMATION:
APPLICANT: Conkling, Mark A.
APPLICANT: Mendu, Nandini
APPLICANT: Song, Wen
TITLE OF INVENTION: Root Cortex Specific Gene Promoter
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
ADDRESS: Gibson
STREET: Post Office Drawer 34009
CITY: Charlotte
STATE: North Carolina
COUNTRY: USA
ZIP: 28234

```

```

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/12158
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 5051-294
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-420-2200
TELEFAX: 919-881-3175
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1372 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
PCT-US96-12158-3

```

```

Query Match 100.0%; Score 456; DB 5; Length 1372;
Best Local Similarity 100.0%; Pred. No. 1.4e-86;
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGRACACATATTCGAATACATTTGCTACTCATATAATCGTAGAATACCTTTGTGCCTT 60
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 343 GGAACACATATTCGAATACATTTGCTACTCATATAATCGTAGAATACCTTTGTGCCTT 402
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 61 GCTAATAAAGATACCTTGAATAGCTTGTAAATATAAATAGCATAATAGATATTTAGGA 120
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 403 GCTAATAAAGATACCTTGAATAGCTTGTAAATATAAATAGCATAATAGATATTTAGGA 462
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 121 ATTAGTATTTTGAGTTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 180
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 463 ATTAGTATTTTGAGTTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 522
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 181 ATGAAAATTTAAATGCTTTTATTAGTTTTAAATTAATTAATTAATTAATTAATTAATTA 240
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 523 ATGAAAATTTAAATGCTTTTATTAGTTTTAAATTAATTAATTAATTAATTAATTAATTA 582
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 241 TTTAATFCGGTATAGTTCGATATTTTTCAATTTATTTATAAATAAATAAATAAATAAATCC 300
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 583 TTTAATFCGGTATAGTTCGATATTTTTCAATTTATTTATAAATAAATAAATAAATAAATCC 642
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 301 AATTATCGGTACAGTTATAGATTATATAAATAAATCGGTTCTTCAGAGAAACCTTAAA 360
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 643 AATTATCGGTACAGTTATAGATTATATAAATAAATCGGTTCTTCAGAGAAACCTTAAA 702
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

```

```

RESULT 7
US-08-508-786-2
Sequence 2, Application US/08508786
GENERAL INFORMATION:
APPLICANT: Conkling, Mark A.
APPLICANT: Mendu, Nandini
APPLICANT: Song, Wen
TITLE OF INVENTION: Root Cortex Specific Gene Promoter
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:

```

ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ADDRESSSEE: Gibson
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5837876th Carolina
 COUNTRY: USA
 ZIP: 28234
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA: US/08/508,786
 FILING DATE:
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 REFERENCE/DOCKET NUMBER: 5051-294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-420-2200
 TELEFAX: 919-881-3175
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1988 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-508-786-2

Query Match 100.0%; Score 456; DB 2; Length 1988;
 Best Local Similarity 100.0%; Pred. No. 1.5e-86;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGAAACAATTCATACATCTGCTACTCATATCGCTAGAACTTTGGCCCTT	60
Db	959	GGAAACAATTCATACATCTGCTACTCATATCGCTAGAACTTTGGCCCTT	1018
Qy	61	GCTAATAAGATACCTTGAATAGCTTAAATTAATAAGCATAATAGATTTAGGA	120
Db	1019	GCTAATAAGATACCTTGAATAGCTTAAATTAATAAGCATAATAGATTTAGGA	1078
Qy	121	ATTAGTATTTGAGTTTAACTTATGACTTGAACAGTTTATAAATCCAGGCC	180
Db	1079	ATTAGTATTTGAGTTTAACTTATGACTTGAACAGTTTATAAATCCAGGCC	1138
Qy	181	ATGAAAAATTTAAUCGCTTTATPAGTTTAACTTACTATAAATTTTTCATATGTA	240
Db	1139	ATGAAAAATTTAAUCGCTTTATPAGTTTAACTTACTATAAATTTTTCATATGTA	1198
Qy	241	TTTAAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	300
Db	1199	TTTAAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	1258
Qy	301	AAATTAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	360
Db	1259	AAATTAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	1318
Qy	361	AATCGGTTCGGTCGGACGGTTCGATTCGATTCGATTCGATTCGATTCGATTCG	420
Db	1319	AATCGGTTCGGTCGGACGGTTCGATTCGATTCGATTCGATTCGATTCGATTCG	1378
Qy	421	CCTAGTTGTTGTTATAGTTPAAAAGCAGTTACAGAG	456
Db	1379	CCTAGTTGTTGTTATAGTTPAAAAGCAGTTACAGAG	1414

RESULT 8
 PCT-US96-12158-2
 ; Sequence 2, Application PC/TUS9612158
 ; GENERAL INFORMATION:

APPLICANT: Conkling, Mark A.
 APPLICANT: Mendu, Nandini
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: North Carolina
 COUNTRY: USA
 ZIP: 28234
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA: PCT/US96/12158
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 REFERENCE/DOCKET NUMBER: 5051-294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-420-2200
 TELEFAX: 919-881-3175
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1988 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 PCT-US96-12158-2

Query Match 100.0%; Score 456; DB 5; Length 1988;
 Best Local Similarity 100.0%; Pred. No. 1.5e-86;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGAAACAATTCATACATCTGCTACTCATATCGCTAGAACTTTGGCCCTT	60
Db	959	GGAAACAATTCATACATCTGCTACTCATATCGCTAGAACTTTGGCCCTT	1018
Qy	61	GCTAATAAGATACCTTGAATAGCTTAAATTAATAAGCATAATAGATTTAGGA	120
Db	1019	GCTAATAAGATACCTTGAATAGCTTAAATTAATAAGCATAATAGATTTAGGA	1078
Qy	121	ATTAGTATTTGAGTTTAACTTATGACTTGAACAGTTTATAAATCCAGGCC	180
Db	1079	ATTAGTATTTGAGTTTAACTTATGACTTGAACAGTTTATAAATCCAGGCC	1138
Qy	181	ATGAAAAATTTAAUCGCTTTATPAGTTTAACTTACTATAAATTTTTCATATGTA	240
Db	1139	ATGAAAAATTTAAUCGCTTTATPAGTTTAACTTACTATAAATTTTTCATATGTA	1198
Qy	241	TTTAAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	300
Db	1199	TTTAAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	1258
Qy	301	AAATTAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	360
Db	1259	AAATTAATCGGTATAGTTCGATATTTTCAATTTTATAAATAAATAAATAAATAA	1318
Qy	361	AATCGGTTCGGTCGGACGGTTCGATTCGATTCGATTCGATTCGATTCGATTCG	420
Db	1319	AATCGGTTCGGTCGGACGGTTCGATTCGATTCGATTCGATTCGATTCGATTCG	1378
Qy	421	CCTAGTTGTTGTTATAGTTPAAAAGCAGTTACAGAG	456
Db	1379	CCTAGTTGTTGTTATAGTTPAAAAGCAGTTACAGAG	1414

```

Qy 361 AATCGGTTCCGTCGGACCGGTTCCGATTCGGTTAGTCGATTTCAAATATTCATTGACACT 420
    |||||
Db 1319 AATCGGTTCCGTCGGACCGGTTCCGATTCGGTTAGTCGATTTCAAATATTCATTGACACT 1378
    |||||
Qy 421 CCTAGTTGTTATAGTATAAAGAAGCAGTTACAGAG 456
    |||||
Db 1379 CCTAGTTGTTATAGTATAAAGAAGCAGTTACAGAG 1414
    |||||

```

RESULT 10

```

PCT-US96-12158-1
; Sequence 1. Application PC/TUS9612158
; GENERAL INFORMATION:
; APPLICANT: Conkling, Mark A.
; APPLICANT: Mendu, Nandini
; APPLICANT: Song, Wen
; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
; ADDRESSEE: Gibson
; STREET: Post Office Drawer 34009
; CITY: Charlotte
; STATE: North Carolina
; COUNTRY: USA
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/12158
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5051-294
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-420-2200
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2010 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US96-12158-1

```

```

Qy 361 AATCGGTTCCGTCGGACCGGTTCCGATTCGGTTAGTCGATTTCAAATATTCATTGACACT 420
    |||||
Db 1319 AATCGGTTCCGTCGGACCGGTTCCGATTCGGTTAGTCGATTTCAAATATTCATTGACACT 1378
    |||||
Qy 421 CCTAGTTGTTATAGTATAAAGAAGCAGTTACAGAG 456
    |||||
Db 1379 CCTAGTTGTTATAGTATAAAGAAGCAGTTACAGAG 1414
    |||||
RESULT 10
; Sequence 1. Application US/08508786
; Patent No. 5837876
; GENERAL INFORMATION:
; APPLICANT: Conkling, Mark A.
; APPLICANT: Mendu, Nandini
; APPLICANT: Song, Wen
; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
; ADDRESSEE: Gibson
; STREET: Post Office Drawer 34009
; CITY: Charlotte
; STATE: No. 5837876th Carolina
; COUNTRY: USA
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/508,786
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5051-294
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-420-2200
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2010 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-508-786-1
Query Match 100.0%; Score 456; DB 2; Length 2010;
Best Local Similarity 100.0%; Pred. No. 1.5e-86;
Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGAACAATATTCAATACATTGGTTTCCTACTCATAATCGCTAGAAATPCTTGTGCCTT 60
    |||||
Db 959 GGAACAATATTCAATACATTGGTTTCCTACTCATAATCGCTAGAAATPCTTGTGCCTT 1018
    |||||
Qy 61 GCTATAAAGATACTTGAATAGCTAGTTTAAATATAAATAGCATATAGATTTAGGA 120
    |||||
Db 1019 GCTATAAAGATACTTGAATAGCTAGTTTAAATATAAATAGCATATAGATTTAGGA 1078
    |||||
Qy 121 ATTAGTATTTGAGTTTAACTAATTGACTGTGTAAGGTTTTTATAAATCCAAAGGCC 180
    |||||
Db 1079 ATTAGTATTTGAGTTTAACTAATTGACTGTGTAAGGTTTTTATAAATCCAAAGGCC 1138
    |||||
Qy 181 ATGA AAAAATTTAACTTATTAGTTTAAACTTACTATATAAATTTTCTATGTA AAA 240
    |||||
Db 1139 ATGA AAAAATTTAACTTATTAGTTTAAACTTACTATATAAATTTTCTATGTA AAA 1198
    |||||
Qy 241 TTTAACTCGGTATAGTTCCGATATTTTCAATTTTAAATATAAATATAAATAA A A A A C C T T A C C C T 300
    |||||
Db 1199 TTTAACTCGGTATAGTTCCGATATTTTCAATTTTAAATATAAATATAAATAA A A A A C C T T A C C C T 1258
    |||||
Qy 301 AATTAATCGGTACAGTTATAGATTATATAA AAA A A A C T A C G G T T C T T C A G A G A A A C C T T A A A 360
    |||||
Db 1259 AATTAATCGGTACAGTTATAGATTATATAA AAA A A A C T A C G G T T C T T C A G A G A A A C C T T A A A 1318
    |||||

```

Db 1199 TTTAATCGGTATAGTTCGATATATTTTTCATATTTTATATAAAAATAAABAAACTTACCCT 1258
 Qy 301 AATTATCGGTACAGTTATAGATTTATATAAAAATCTACGGTTCTTCAGAGAACAACCTAAA 360
 Db 1259 AATTATCGGTACAGTTATAGATTTATATAAAAATCTACGGTTCTTCAGAGAACAACCTAAA 1318
 Qy 361 AATCGGTCGGTCGGACGGTTCGATCGGTTAGTCGATTTTCAAAATATTCATTGACACT 420
 Db 1319 AATCGGTCGGTCGGACGGTTCGATCGGTTAGTCGATTTTCAAAATATTCATTGACACT 1378
 Qy 421 CCTAGTTGTTTATAGTAAAAAAGCAGTTACAGAG 456
 Db 1379 CCTAGTTGTTTATAGTAAAAAAGCAGTTACAGAG 1414

RESULT 11
 US-08-508-786-6
 ; Sequence 6, Application US/08508786
 ; Patent No. 5837876
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Mendu, Nandini
 ; APPLICANT: Song, Wen
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESSEE: Gibson
 ; STREET: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: No. 5837876th Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/508,786
 ; FILING DATE:
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 5051-294
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 919-420-2200
 ; TELEFAX: 919-881-3175
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 722 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; US-08-508-786-6

Query Match 32.5%; Score 148; DB 2; Length 722;
 Best Local Similarity 100.0%; Pred. No. 1.6e-22;
 Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 309 GTACAGTTATAGATTTATATAAAAATCTACGGTTCTTCAGAGAACAACCTAAAATCGGTT 368
 Db 1 GTACAGTTATAGATTTATATAAAAATCTACGGTTCTTCAGAGAACAACCTAAAATCGGTT 60
 Qy 369 CGGTGGGACGGTTCGATCGGTTAGTCGATTTTCAAAATATTCATTGACACTCCTAGTTG 428
 Db 61 CGGTGGGACGGTTCGATCGGTTAGTCGATTTTCAAAATATTCATTGACACTCCTAGTTG 120
 Qy 429 TTGTTATAGGTAATAAAGCAGTTACAGAG 456
 Db 121 TTGTTATAGGTAATAAAGCAGTTACAGAG 148

RESULT 12
 PCT-US96-12158-6
 ; Sequence 6, Application PC/TUS9612158
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Mendu, Nandini
 ; APPLICANT: Song, Wen
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESSEE: Gibson
 ; STREET: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: North Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US96/12158
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 5051-294
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 919-420-2200
 ; TELEFAX: 919-881-3175
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 722 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; PCT-US96-12158-6

Query Match 32.5%; Score 148; DB 5; Length 722;
 Best Local Similarity 100.0%; Pred. No. 1.6e-22;
 Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 309 GTACAGTTATAGATTTATATAAAAATCTACGGTTCTTCAGAGAACAACCTAAAATCGGTT 368
 Db 1 GTACAGTTATAGATTTATATAAAAATCTACGGTTCTTCAGAGAACAACCTAAAATCGGTT 60
 Qy 369 CGGTGGGACGGTTCGATCGGTTAGTCGATTTTCAAAATATTCATTGACACTCCTAGTTG 428
 Db 61 CGGTGGGACGGTTCGATCGGTTAGTCGATTTTCAAAATATTCATTGACACTCCTAGTTG 120
 Qy 429 TTGTTATAGGTAATAAAGCAGTTACAGAG 456
 Db 121 TTGTTATAGGTAATAAAGCAGTTACAGAG 148

RESULT 13
 US-08-998-416-288
 ; Sequence 288, Application US/08998416
 ; Patent No. 8239264
 ; GENERAL INFORMATION:
 ; APPLICANT: Philippsen, Peter
 ; APPLICANT: Pohlmann, Rainer
 ; APPLICANT: Steiner, Sabine
 ; APPLICANT: Mohr, Christine
 ; APPLICANT: Wendland, Jurgen
 ; APPLICANT: Knechtle, Philipp
 ; APPLICANT: Rebeschung, Corinne

```

; TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSYPYII
; TITLE OF INVENTION: AND USES THEREOF
; NUMBER OF SEQUENCES: 1152
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6239264artis Corporation
; STREET: 3054 Cornwallis Road
; CITY: Research Triangle Park
; STATE: No. 6239264th Carolina
; COUNTRY: USA
; ZIP: 27709
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/998,416
; FILING DATE: 24-DEC-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: CH 0016/97
; FILING DATE: 31-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timochy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGC1976
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8587
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 288:
; SEQUENCE CHARACTERISTICS:
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: FAG1241RP
; US-08-998-416-288

```

```

Query Match 13.3%; Score 60.6; DB 3; Length 837;
Best Local Similarity 51.1%; Pred. No. 0.00024;
Matches 168; Conservative 0; Mismatches 159; Indels 2; Gaps 1;
QY 4 AACATATTCATACATTCCTAGTTGCTACTCATATAATCCGTAGATACTTTGCGCCTGCT 63
Db 234 AAATTAGTTTAAATAATATTATAGATAATTATTTTCITTAATAAATTTAAATAGA 293
QY 64 AATAAGATACCTTGAATAGCTTAGTTTAAATAATAATAGATAATAGATTTTGGAAAT 123
Db 294 TTATCAATAAATAATATATATTATTAATGTTTATTAATAATAATAATATTATTA 353
QY 124 AGTATTTGAGTTTAACTTATG--ACTTGAACAGTTTTTATAATCCAGGCCCA 181
Db 354 TAAAGATTTAATTTTAAATAATTTGTAATAATTTATTTTATTAATAATCTATTTTA 413
QY 182 TCAAAAATTAATGCTTTATTTAGTTTAAACTTACTATATAAATTTTTCATATGTRAAAT 241
Db 414 TAATAATTTATGTTGATTTTATTTATTTAATCTTTTATAGATAATATTAATAATTAAT 473
QY 242 TTAATCGGTATAGTTCGATATTTTTCATATTTTATAAATAAATAAATAAATCAACCTA 301
Db 474 TTTAACTTTAATTTCTTATTTAATTTTATATTTTATTAATAAATAAATAAATCAATTTA 533
QY 302 ATTATCGGTACAGTTATAGATTTTATATAA 330
Db 534 TTTATTTATTTTAAATAAATAAATAAATA 562

```

```

RESULT 14
US-09-641-638-651
; Sequence 651, Application US/09641638
; Patent No. 6432648

```

```

; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Chumakov, Ilya
; APPLICANT: Cohen, Annick
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
; FILE REFERENCE: GENSET.CS1CPI
; CURRENT APPLICATION NUMBER: US/09/641,638
; CURRENT FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1998-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent.pm
; SEQ ID NO 851
; LENGTH: 20674
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1123..3123
; OTHER INFORMATION: 5'regulatory region
; NAME/KEY: exon
; LOCATION: 3124..3297
; OTHER INFORMATION: exon 1
; NAME/KEY: exon
; LOCATION: 3871..4072
; OTHER INFORMATION: exon 2
; NAME/KEY: exon
; LOCATION: 5552..5633
; OTHER INFORMATION: exon 3
; NAME/KEY: exon
; LOCATION: 5758..5880
; OTHER INFORMATION: exon 4
; NAME/KEY: exon
; LOCATION: 5996..6099
; OTHER INFORMATION: exon 5
; NAME/KEY: exon
; LOCATION: 6349..6509
; OTHER INFORMATION: exon 6
; NAME/KEY: exon
; LOCATION: 7379..7522
; OTHER INFORMATION: exon 7
; NAME/KEY: exon
; LOCATION: 8645..8854
; OTHER INFORMATION: exon 8
; NAME/KEY: exon
; LOCATION: 12254..12340
; OTHER INFORMATION: exon 9
; NAME/KEY: exon
; LOCATION: 12854..13023
; OTHER INFORMATION: exon 10
; NAME/KEY: exon
; LOCATION: 13308..13429
; OTHER INFORMATION: exon 11
; NAME/KEY: exon
; LOCATION: 16567..16667
; OTHER INFORMATION: exon 12
; NAME/KEY: exon
; LOCATION: 16775..16945
; OTHER INFORMATION: exon 13
; NAME/KEY: exon
; LOCATION: 17063..17554
; OTHER INFORMATION: exon 14
; NAME/KEY: misc.feature
; LOCATION: 17555..20674
; OTHER INFORMATION: 3'regulatory region

```



```

; NAME/KEY: allele
; LOCATION: 1128
; OTHER INFORMATION: 10-508-191 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 1182
; OTHER INFORMATION: 10-508-245 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 1559
; OTHER INFORMATION: 10-509-284 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 1570
; OTHER INFORMATION: 10-509-295 : deletion of C
; NAME/KEY: allele
; LOCATION: 1827
; OTHER INFORMATION: 10-510-173 : variable motif ATTTA or TTTTTT
; NAME/KEY: allele
; LOCATION: 2048
; OTHER INFORMATION: 10-511-62 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 2323
; OTHER INFORMATION: 10-511-337 : insertion of T
; NAME/KEY: allele
; LOCATION: 2341
; OTHER INFORMATION: 10-512-36 : polymorphic base G or C
; NAME/KEY: allele
; LOCATION: 2623
; OTHER INFORMATION: 10-513-318 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 2832
; OTHER INFORMATION: 10-513-250 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 2844
; OTHER INFORMATION: 10-513-262 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 2934
; OTHER INFORMATION: 10-513-352 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 2947
; OTHER INFORMATION: 10-513-365 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 3802
; OTHER INFORMATION: 12-206-81 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 4062
; OTHER INFORMATION: 10-343-231 : deletion of C
; NAME/KEY: allele
; LOCATION: 4088
; OTHER INFORMATION: 12-206-366 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 4109
; OTHER INFORMATION: 10-343-278 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 4170
; OTHER INFORMATION: 10-343-339 : polymorphic base G or T
; NAME/KEY: allele
; LOCATION: 5903
; OTHER INFORMATION: 10-346-23 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 6019
; OTHER INFORMATION: 10-346-141 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 6141
; OTHER INFORMATION: 10-346-263 : polymorphic base G or C
; NAME/KEY: allele
; LOCATION: 6183
; OTHER INFORMATION: 10-346-305 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 6338
; OTHER INFORMATION: 10-347-74 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 6375
; OTHER INFORMATION: 10-347-111 : polymorphic base G or C
; NAME/KEY: allele

```

```

; LOCATION: 6429
; OTHER INFORMATION: 10-347-165 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 6467
; OTHER INFORMATION: 10-347-203 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 6484
; OTHER INFORMATION: 10-347-220 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 6534
; OTHER INFORMATION: 10-347-271 : polymorphic base A or T
; NAME/KEY: allele
; LOCATION: 6611
; OTHER INFORMATION: 10-347-348 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 7668
; OTHER INFORMATION: 10-348-391 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 8608
; OTHER INFORMATION: 10-349-47 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 8658
; OTHER INFORMATION: 10-349-97 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 8703
; OTHER INFORMATION: 10-349-142 : polymorphic base G or C
; NAME/KEY: allele
; LOCATION: 8777
; OTHER INFORMATION: 10-349-216 : deletion of CTG
; NAME/KEY: allele
; LOCATION: 8785
; OTHER INFORMATION: 10-349-224 : polymorphic base G or T
; NAME/KEY: allele
; LOCATION: 8926
; OTHER INFORMATION: 10-349-368 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 12171
; OTHER INFORMATION: 10-350-72 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 12429
; OTHER INFORMATION: 10-350-332 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 13341
; OTHER INFORMATION: 10-507-170 : polymorphic base A or G
; NAME/KEY: allele
; LOCATION: 13492
; OTHER INFORMATION: 10-507-321 : polymorphic base A or C
; NAME/KEY: allele
; LOCATION: 13524
; OTHER INFORMATION: 10-507-353 : polymorphic base C or T
; NAME/KEY: allele
; LOCATION: 13535

```

```

Query Match 13.08; Score 59.4; DB 4; Length 20674;
Best Local Similarity 49.5%; Pred. No. 0.00062;
Matches 153; Conservative 0; Mismatches 156; Indels 0; Gaps 0;
Qy 51 TTTGTGCTTGCCTAATAAGACTACTTGAATAGCTTAGTTTAAATAATAAGCATAATA 110
Db 11064 TTTTPTAAGCTAAGGAAATATTTAATATTTTAAATTAATAATTTAATAATA 1123
Qy 111 GATTTAGGAATTAGTATTTTGGATTTAATCTATTGACTGTGACAGTTTTTATAAT 170
Db 11124 TTAATAATTAATAATTTAATAATTAATAATTAATAATTTAATAATAATAATA 11183
Qy 171 TCCAGGCCCATGAAAATTTAATGCTTTATTAGTTTAACTTACTATATAATAATTTTC 230
Db 11184 AATTTAATAATTAATAATTTAATAATTTAATAATTTAATAATAACATTTAAATTTT 11243
Qy 231 ATATGTAAAATTTAATCGGTATAGTTCGATATTTTTTCAATTTATTTTTFAAAAATAAA 290
Db 11244 AATTTTAAATTAATAATTTAATAATTTAATAATTTAATAATACTTAAATTTAATAATA 11303

```

QY 291 AACTTACCCTAATTATCGGTACAGTTATAGATTATATAAATAAATCTACGGTTCTTCAGAA 350
 Db 11304 ATTTAACTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATA 11363

QY 351 GAACCTAA 359
 Db 11364 TTAATTTAA 11372

RESULT 15

US-10-170-097-651
 ; Sequence 651, Application US/10170097
 ; Patent No. 6794143
 ; GENERAL INFORMATION:
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Bougueleret, Lydie
 ; APPLICANT: Chumakov, Iliya
 ; APPLICANT: Cohen, Annick
 ; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
 ; FILE REFERENCE: GEN-T114XG2D1
 ; CURRENT APPLICATION NUMBER: US/10/170,097
 ; CURRENT FILING DATE: 2002-06-10
 ; PRIOR APPLICATION NUMBER: US 09/641,638
 ; PRIOR FILING DATE: 2000-08-16
 ; PRIOR APPLICATION NUMBER: US 09/502,330
 ; PRIOR FILING DATE: 2000-02-11
 ; PRIOR APPLICATION NUMBER: US 60/133,200
 ; PRIOR FILING DATE: 1999-05-07
 ; PRIOR APPLICATION NUMBER: US 09/275,267
 ; PRIOR FILING DATE: 1999-03-23
 ; PRIOR APPLICATION NUMBER: US 60/119,917
 ; PRIOR FILING DATE: 1999-02-12
 ; NUMBER OF SEQ ID NOS: 1304
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO 651
 ; LENGTH: 20674
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 1123..3123
 ; OTHER INFORMATION: 5'regulatory region
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 3124..3297
 ; OTHER INFORMATION: exon 1
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 3871..4072
 ; OTHER INFORMATION: exon 2
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 5552..5633
 ; OTHER INFORMATION: exon 3
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 5758..5880
 ; OTHER INFORMATION: exon 4
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 5996..6099
 ; OTHER INFORMATION: exon 5
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 6349..6509
 ; OTHER INFORMATION: exon 6
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: 7379..7522
 ; OTHER INFORMATION: exon 7
 ; FEATURE:
 ; NAME/KEY: exon

LOCATION: 8645..8854
 OTHER INFORMATION: exon 8
 FEATURE:
 NAME/KEY: exon
 LOCATION: 12254..12340
 OTHER INFORMATION: exon 9
 FEATURE:
 NAME/KEY: exon
 LOCATION: 12854..13023
 OTHER INFORMATION: exon 10
 FEATURE:
 NAME/KEY: exon
 LOCATION: 13308..13429
 OTHER INFORMATION: exon 11
 FEATURE:
 NAME/KEY: exon
 LOCATION: 16567..16667
 OTHER INFORMATION: exon 12
 FEATURE:
 NAME/KEY: exon
 LOCATION: 16775..16945
 OTHER INFORMATION: exon 13
 FEATURE:
 NAME/KEY: exon
 LOCATION: 17063..17554
 OTHER INFORMATION: exon 14
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 17555..20674
 OTHER INFORMATION: 3'regulatory region
 FEATURE:
 NAME/KEY: allele
 LOCATION: 1128
 OTHER INFORMATION: 10-508-191 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 1182
 OTHER INFORMATION: 10-508-245 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 1559
 OTHER INFORMATION: 10-509-284 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 1570
 OTHER INFORMATION: 10-509-295 : deletion of C
 FEATURE:
 NAME/KEY: allele
 LOCATION: 1827
 OTHER INFORMATION: 10-510-173 : variable motif ATTTA or TTTTT
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2048
 OTHER INFORMATION: 10-511-62 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2323
 OTHER INFORMATION: 10-511-337 : insertion of T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2341
 OTHER INFORMATION: 10-512-36 : polymorphic base G or C
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2623
 OTHER INFORMATION: 10-512-318 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2832
 OTHER INFORMATION: 10-513-250 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2844

```

OTHER INFORMATION: 10-513-262 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 2934
OTHER INFORMATION: 10-513-352 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 2947
OTHER INFORMATION: 10-513-365 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 3802
OTHER INFORMATION: 12-206-81 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 4062
OTHER INFORMATION: 10-343-231 : deletion of C
FEATURE:
NAME/KEY: allele
LOCATION: 4088
OTHER INFORMATION: 12-206-366 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 4109
OTHER INFORMATION: 10-343-278 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 4170
OTHER INFORMATION: 10-343-339 : polymorphic base G or T
FEATURE:
NAME/KEY: allele
LOCATION: 5903
OTHER INFORMATION: 10-346-23 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 6019
OTHER INFORMATION: 10-346-141 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 6141
OTHER INFORMATION: 10-346-263 : polymorphic base G or C
FEATURE:
NAME/KEY: allele
LOCATION: 6183
OTHER INFORMATION: 10-346-305 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 6338
OTHER INFORMATION: 10-347-74 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 6375
OTHER INFORMATION: 10-347-111 : polymorphic base G or C
FEATURE:
NAME/KEY: allele
LOCATION: 6429
OTHER INFORMATION: 10-347-165 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 6467
OTHER INFORMATION: 10-347-203 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 6484
OTHER INFORMATION: 10-347-220 : polymorphic base A or G

```

```

Query Match 13.0%; Score 59.4; DB 4; Length 20674;
Best Local Similarity 49.5%; Pred. No. 0.00062;
Matches 153; Conservative 0; Mismatches 156; Indels 0; Gaps 0;
QY 51 TTGTGCGCTTGCTAATAAGAACTAGTAAATAGCTTAAATATAAATAGCATATA 110
Db 11064 TTTTAAATAGCTAAGAAATATATTTAATTTTTAATTTAATATAAATTTAATATA 11123

```

```

QY 111 GATTTAGGAATTAGTATTTTGGAGTTTAACTTACTTATTGACTTGTAAACAGTTTTTTATAAT 170
Db 11124 TTAATAATTAATAATTTTAAATTTAATTTAATAATTAATAATTTAAATTTTAAATAAATTAATA 11183
QY 171 TCCAAGGCCCAAGAAAAAATTAATGCTTTTATTAGTTTTAAACTTACTATAATAAATTTTC 230
Db 11184 AATTTAATAATAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTT 11243
QY 231 ATATGTAATAATTTAATCGGTATAGTTCGATATTTTTCAATTTTATTTTAAATAAATAA 290
Db 11244 AATTTAATAATAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAAATTTAATTTAATTA 11303
QY 291 AACTTACCCTAATTTATCGGTACAGTTATAGATTTATATAAATAATCTACGGTTCTTCAGAA 350
Db 11304 ATTTAACTTAAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATA 11363
QY 351 GAAACCTAA 359
Db 11364 TTAATTTAA 11372

```

Search completed: November 13, 2004, 02:53:36
Job time : 82 secs

This Page Blank (uspto)